

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Shunpei YAMAZAKI et al. Art Unit : Unknown
Serial No. : New Application Examiner : Unknown
Filed : May 10, 2001
Title : COMMUNICATION SYSTEM

Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Prior to examination, please amend the application as follows:

In the claims:

Amend claims 1-25 as follows:

--1. A communication system for distinguishing a user, said system comprising:
a storing means for storing reference living body information;
a reading means for reading collation living body information of the user;
a collating means for collating the collation living body information with the reference
living body information; and

a sending means for sending a notice of coincidence as data to a mating party when a
collation result proves coincident.

2. A communication system according to claim 1, wherein the reference living body
information comprises n reference living body information, the collation living body information
of the user comprises n collation living body information of the user, the collating means collates
the n collation living body information with the n reference living body information, and the
sending means sends the notice of coincidence as data to the mating party when all of collation
results prove coincident.

3. A communication system according to claim 1, wherein the reference living body
information comprises n reference living body information, the collation living body information
of the user comprises m collation living body information of the user, the collating means

collates the m collation living body information with the n reference living body information, and the sending means sends the notice of coincidence as data to the mating party when at least one of the n reference living body information coincides with at least one of the m collation living body information.

4. A communication system according to claim 1, wherein the reference living body information comprises a plurality of kinds of reference living body information, the collation living body information of the user comprises a plurality of kinds of collation living body information of the user, the collating means collates the plurality of collation living body information with the plurality of reference living body information, and the sending means sends the notice of coincidence as data to the mating party when the plurality of kinds of collation living body information wholly coincide with the plurality of kinds of reference living body information.

5. A communication system according to claim 1, wherein the reference living body information comprises n reference living body information of a plurality of kinds, the collation living body information comprises m collation living body information of a plurality of kinds of a user, the collating means collates the m collation living body information with the n reference living body information, and the sending means sends the notice of coincidence as data to the mating party when at least one of each kind of collation living body information among the plurality of kinds of collation living body information coincides with at least one of each kind of reference living body information among the n reference living body information.

6. A communication system according to claim 1, wherein the reference living body information comprises n reference living body information of a plurality of kinds, the collation living body information comprises m collation living body information of a plurality of kinds of a user, the collating means collates the m collation living body information with the n reference living body information, and the sending means sends the notice of coincidence as data to the mating party when all of the plurality of kinds of collation living body information coincide with all of the n reference living body information.

7. A communication system for distinguishing a user, said system comprising:
a storing means for storing reference living body information;
a reading means for reading collation living body information of the user;
a collating means for collating the collation living body information with the reference living body information; and
a sending means for sending a notice of coincidence as data to a manager when a collation result proves coincident,
wherein a communication between the user and a mating party is started through the manager after the mating party receives the notice of coincidence as data.

8. A communication system according to claim 7, further comprising a causing means for causing the manager to send the notice of coincidence as data to the mating party.

9. A communication system according to claim 7, further comprising a causing means for causing the manager to send the notice of coincidence as data to a mating party,
wherein the communication between the user and the mating party is directly started after the mating party receives the notice of coincidence as data.

10. A system according to claim 1, wherein a transaction is conducted between the user and the mating party,
wherein an identification of the user is requested only when the condition set to the mating party is satisfied.

11. A communication system for distinguishing a user, said system comprising:
a storing means for storing reference living body information;
a reading means for reading collation living body information of the user;
a collating means for collating the collation living body information with the reference living body information; and

a sending means for sending a notice of coincidence as data to a mating party when a collation result proves coincident,

wherein a password is sent as data to the mating party after the notice of collation is sent to the mating party, and the reference living body information is rewritten when the password is authenticated as correct on the mating party.

12. A communication system according to claim 11, wherein the reference living body information comprises n reference living body information, the collation living body information comprises n collation living body information of the user, the collating means collates the n collation living body information with the n reference living body information, and the sending means sends the notice of coincidence as data to the mating party when collation results wholly prove coincident.

13. A communication system according to claim 11, wherein the reference living body information comprises n reference living body information, the collation living body information of the user comprises m collation living body information of the user, the collating means collates the m collation living body information with the n reference living body information, and the sending means sends the notice of coincidence as data to the mating party when at least one of the n reference living body information coincides with at least one of the m collation living body information.

14. A communication system according to claim 11, wherein the reference living body information comprises a plurality of kinds of reference living body information, the collation living body information of the user comprises a plurality of kinds of collation living body information of the user, the collating means collates the plurality of kinds of collation living body information with a plurality of kinds of the reference living body information; and the sending means sends the notice of coincidence as data to the mating party when the plurality of kinds of the collation living body information wholly coincide with the plurality of kinds of reference living body information.

15. A communication system according to claim 11, wherein the reference living body information comprises n reference living body information of a plurality of kinds, the collation living body information comprises m collation living body information of a plurality of kinds of the user, the collating means collates the m collation living body information with the n reference living body information, and the sending means sends the notice of coincidence as data to the mating party when at least one of the collation living body information of each kind among the plurality of kinds coincides with at least one of n reference living body information of each kind.

16. A communication system according to claim 11, wherein the reference living body information comprises n reference living body information of a plurality of kinds, the collation living body information comprises m collation living body information of a plurality of kinds of the user, the collating means collates the m collation living body information with the n reference living body information, and the sending means sends the notice of coincidence as data to the mating party when all of the plurality of kinds of collation living body information coincide with all of the n collation living body information.

17. A communication system for distinguishing a user, said system comprising:
a storing means for storing reference living body information;
a reading means for reading collation living body information of the user;
a collating means for collating the collation living body information with the reference living body information; and
a sending means for sending a notice of coincidence as data to a manager when a collation result proves coincident,

wherein a password is sent as data to the manager after the notice of collation is sent to the manager, and the reference living body information is rewritten when the password is authenticated as correct on the manager.

18. A system according to claim 1,

wherein the reference living body information comprises at least one selected from the group consisting of a fingerprint, a palm print and a voiceprint.

19. A system according to claim 1,
wherein the collation living body information comprises at least one selected from the group consisting of a fingerprint, a palm print and a voiceprint.

20. A system according to claim 1,
wherein the palm print is a palm print of the whole palm or a palm print of a part of the palm.

21. A system according to claim 1, wherein the storing means is a flash memory.

22. A system according to claim 1, wherein the reading means is a photodiode or a charge coupled device.

23. A system according to claim 1, wherein a portable information terminal is used.

24. A system according to claim 1, wherein a cellular telephone is used.

25. A system according to claim 1, wherein a personal computer is used.--

Add claims 27 to 54 as follows:

--27. A system according to claim 7, wherein a transaction is conducted between the user and the mating party,

wherein an identification of the user is requested only when the condition set to the mating party is satisfied.--

--28. A system according to claim 7,

wherein the reference living body information comprises at least one selected from the group consisting of a fingerprint, a palm print and a voiceprint.--

--29. A system according to claim 11,
wherein the reference living body information comprises at least one selected from the group consisting of a fingerprint, a palm print and a voiceprint.--

--30. A system according to claim 17,
wherein the reference living body information comprises at least one selected from the group consisting of a fingerprint, a palm print and a voiceprint.--

--31. A system according to claim 7,
wherein the collation living body information comprises at least one selected from the group consisting of a fingerprint, a palm print and a voiceprint.--

--32. A system according to claim 11,
wherein the collation living body information comprises at least one selected from the group consisting of a fingerprint, a palm print and a voiceprint.--

--33. A system according to claim 17,
wherein the collation living body information comprises at least one selected from the group consisting of a fingerprint, a palm print and a voiceprint.--

--34. A system according to claim 28,
wherein the palm print is a palm print of the whole palm or a palm print of a part of the palm.--

--35. A system according to claim 29,
wherein the palm print is a palm print of the whole palm or a palm print of a part of the palm.--

--36. A system according to claim 30,
wherein the palm print is a palm print of the whole palm or a palm print of a part of the
palm.--

--37. A system according to claim 7, wherein the storing means is a flash memory.--

--38. A system according to claim 11, wherein the storing means is a flash
memory.--

--39. A system according to claim 17, wherein the storing means is a flash
memory.--

--40. A system according to claim 7, wherein the reading means is a photodiode or a
charge coupled device.--

--41. A system according to claim 11, wherein the reading means is a photodiode or a
charge coupled device.--

--42. A system according to claim 17, wherein the reading means is a photodiode or a
charge coupled device.--

--43. A system according to claim 7, wherein a portable information terminal is
used.--

--44. A system according to claim 11, wherein a portable information terminal is
used.--

--45. A system according to claim 17, wherein a portable information terminal is
used.--

- 46. A system according to claim 7, wherein a cellular telephone is used.--
- 47. A system according to claim 11, wherein a cellular telephone is used.--
- 48. A system according to claim 17, wherein a cellular telephone is used.--
- 49. A system according to claim 7, wherein a personal computer is used.--
- 50. A system according to claim 11, wherein a personal computer is used.--
- 51. A system according to claim 17, wherein a personal computer is used.--
- 52. A system according to claim 31, wherein the palm print is a palm print of the whole palm or a palm print of a part of the palm.--
- 53. A system according to claim 32, wherein the palm print is a palm print of the whole palm or a palm print of a part of the palm.--
- 54. A system according to claim 33, wherein the palm print is a palm print of the whole palm or a palm print of a part of the palm.--

REMARKS

Claims 1-54 are pending in this application with claims 1, 7, 11, and 17 being independent. Claims 27-54 have been added. Claims 1-25 have been amended to put the application in better condition for examination.

Attached is a marked-up version of the changes being made by the current amendment.

Applicant asks that all claims be examined. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: May 10, 2001



William D. Hare
Reg. No. 44,739

Fish & Richardson P.C.
601 Thirteenth Street, NW
Washington, DC 20005
Telephone: (202) 783-5070
Facsimile: (202) 783-2331

Version with markings to show changes made

In the claims:

Claims 1-26 have been amended as follows:

1. A communication system for distinguishing a user, said system comprising:
a storing means for storing reference living body information;
a reading means for reading collation living body information of the user;
a collating means for collating the collation living body information with the reference living body information; and
a sending means for sending a notice of coincidence as data to a mating party when a collation result proves coincident.
2. A communication system according to claim 1, wherein the reference living body information comprises **[for distinguishing a user, said system comprising:**
a storing means for storing] n reference living body information[;
a reading means for reading] , the collation living body information of the user
comprises n collation living body information of the user₁[;
a] the collating means **[for collating]** collates the n collation living body information with the n reference living body information₁[;
a] and the sending means **[for sending a]** sends the notice of coincidence as data to **[a]** the mating party when all of collation results prove coincident.
3. A communication system according to claim 1, wherein the **[for distinguishing a user, said system comprising:**
a storing means for storing] reference living body information comprises n reference living body information, the collation living body information of the user comprises [;
a reading means for reading] m collation living body information of the user₁[;
a] the collating means **[for collating]** collates the m collation living body information with the n reference living body information₁[;

a] and the sending means **[for sending a]** sends the notice of coincidence as data to **[a]** the mating party when at least one of the n reference living body information coincides with at least one of the m collation living body information.

4. A communication system according to claim 1, wherein the reference living body information comprises **[for distinguishing a user, said system comprising:**

a storing means for storing] a plurality of kinds of reference living body information[;

a reading means for reading] , the collation living body information of the user comprises a plurality of kinds of collation living body information of the user,];

a] the collating means **[for collating]** collates the plurality of collation living body information with the plurality of reference living body information, and];

a] the sending means **[for sending a]** sends the notice of coincidence as data to **[a]** the mating party when the plurality of kinds of collation living body information wholly coincide with the plurality of kinds of reference living body information.

5. A communication system according to claim 1, wherein the reference living body information comprises **[for distinguishing a user, said system comprising:**

a storing means for storing] n reference living body information of a plurality of kinds, the collation living body information comprises [;

a reading means for reading] m collation living body information of a plurality of kinds of a user,];

a] the collating means **[for collating]** collates the m collation living body information with the n reference living body information, and];

a] the sending means **[for sending a]** sends the notice of coincidence as data to **[a]** the mating party when at least one of each kind of collation living body information among the plurality of kinds of collation living body information coincides with at least one of each kind of reference living body information among the n reference living body information.

6. A communication system according to claim 1, wherein the reference living body information comprises **[for distinguishing a user, said system comprising:**

a storing means for storing] n reference living body information of a plurality of kinds,
the collation living body information comprises [;

a reading means for reading] m collation living body information of a plurality of kinds
of a user, the;

a] collating means [**for collating]** collates the m collation living body information with
the n reference living body information[;

a] , and the sending means [**for sending a]** sends the notice of coincidence as data to [**a]**
the mating party when all of the plurality of kinds of collation living body information coincide
with all of the n reference living body information.

7. A communication system for distinguishing a user, said system comprising:
a storing means for storing reference living body information;
a reading means for reading collation living body information of the user;
a collating means for collating the collation living body information with the reference
living body information; and
a sending means for sending a notice of coincidence as data to a manager when a
collation result proves coincident,
wherein a communication between the user and a mating party is started through the
manager after the mating party receives the notice of coincidence as data.

8. A communication system according to claim 7, further [**for distinguishing a
user, said system]** comprising[:

a storing means for storing reference living body information;
a reading means for reading collation living body information of the user;
**a collating means for collating the collation living body information with the
reference living body information;**
**a sending means for sending a notice of coincidence as data to a manager when a
collation result proves coincident;]**

a causing means for causing the manager to send the notice of coincidence as data to [**a]**
the mating party[,

wherein a communication between the user and the mating party is started through the manager after the mating party receives the notice of coincidence as data].

9. A communication system according to claim 7, further comprising [for distinguishing a user, said system comprising:

a storing means for storing reference living body information;

a reading means for reading collation living body information of the user;

a collating means for collating the collation living body information with the reference living body information;

a sending means for sending a notice of coincidence as data to a manager when a collation result proves coincident;]

a causing means for causing the manager to send the notice of coincidence as data to a mating party,

wherein [a] the communication between the user and the mating party is directly started after the mating party receives the notice of coincidence as data.

10. A system according to claim 1 [any one of claims 1 to 9], wherein a transaction is conducted between the user and the mating party,

wherein an identification of the user is requested only when the condition set to the mating party is satisfied.

11. A communication system for distinguishing a user, said system comprising:

a storing means for storing reference living body information;

a reading means for reading collation living body information of the user;

a collating means for collating the collation living body information with the reference living body information; and

a sending means for sending a notice of coincidence as data to a mating party when a collation result proves coincident,

wherein a password is sent as data to the mating party after the notice of collation is sent to the mating party, and the reference living body information is rewritten when the password is authenticated as correct on the mating party.

12. A communication system according to claim 11, wherein the reference living body information comprises [for distinguishing a user, said system comprising:
a storing means for storing] n reference living body information, the collation living body information comprises [;

a reading means for reading] n collation living body information of the user, the [;

a] collating means [for collating] collates the n collation living body information with the n reference living body information, and the[;

a] sending means [for sending a] sends the notice of coincidence as data to [a] the mating party when collation results wholly prove coincident[,

wherein a password is sent as data to the mating party after the notice of collation is sent to the mating party, and the n reference living body information is re-written when the password is authenticated as correct on the mating party].

13. A communication system according to claim 11, wherein the reference living body information comprises [for distinguishing a user, said system comprising:

a storing means for storing] n reference living body information, the collation living body information of the user comprises [;

a reading means for reading] m collation living body information of the user, the [;

a] collating means [for collating] collates the m collation living body information with the n reference living body information, and the[;

a] sending means [for sending a] sends the notice of coincidence as data to [a] the mating party when at least one of the n reference living body information coincides with at least one of the m collation living body information[,

wherein a password is sent as data to the mating party after the notice of collation is sent to the mating party, and the n reference living body information is re-written when the password is authenticated as correct on the mating party].

14. A communication system according to claim 11, wherein the reference living body information comprises [for distinguishing a user, said system comprising:

a storing means for storing] a plurality of kinds of reference living body information,
the collation living body information of the user comprises [;

a reading means for reading] a plurality of kinds of collation living body information of the user, the [;

a] collating means **[for collating]** collates the plurality of kinds of collation living body information with a plurality of kinds of the reference living body information; and the[;

a] sending means **[for sending a]** sends the notice of coincidence as data to **[a]** the mating party when the plurality of kinds of the collation living body information wholly coincide with the plurality of kinds of reference living body information[,

wherein a password is sent as data to the mating party after the notice of collation is sent to the mating party, and the a plurality of kinds of reference living body information is re-written when the password is authenticated as correct on the mating party].

15. A communication system according to claim 11, wherein the reference living body information comprises [for distinguishing a user, said system comprising:

a storing means for storing] n reference living body information of a plurality of kinds,
the collation living body information comprises [;

a reading means for reading] m collation living body information of a plurality of kinds of the user, the [;

a] collating means **[for collating]** collates the m collation living body information with the n reference living body information, and the[;

a] sending means **[for sending a]** sends the notice of coincidence as data to **[a]** the mating party when at least one of the collation living body information of each kind among the plurality of kinds coincides with at least one of n reference living body information of each kind[,

wherein a password is sent as data to the mating party after the notice of collation is sent to the mating party, and the plurality of kinds of the reference living body information is re-written when the password is authenticated as correct on the mating party].

16. A communication system according to claim 11, wherein the reference living body information comprises **[for distinguishing a user, said system comprising:**

a storing means for storing] n reference living body information of a plurality of kinds, the collation living body information comprises [;

a reading means for reading] m collation living body information of a plurality of kinds of the user, the [;

a] collating means **[for collating]** collates the m collation living body information with the n reference living body information, and the [;

a] sending means **[for sending a]** sends the notice of coincidence as data to **[a]** the mating party when all of the plurality of kinds of collation living body information coincide with all of the n collation living body information[,

wherein a password is sent as data to the mating party after the notice of collation is sent to the mating party, and the plurality of kinds of reference living body information is re-written when the password is authenticated as correct on the mating party].

17. A communication system for distinguishing a user, said system comprising:
a storing means for storing reference living body information;
a reading means for reading collation living body information of the user;
a collating means for collating the collation living body information with the reference living body information; and

a sending means for sending a notice of coincidence as data to a manager when a collation result proves coincident,

wherein a password is sent as data to the manager after the notice of collation is sent to the manager, and the reference living body information is rewritten when the password is authenticated as correct on the manager.

18. A system according to claim 1 [**any one of claims 1-17**],
wherein the reference living body information comprises at least one selected from the
group consisting of a fingerprint, a palm print and a voiceprint.

19. A system according to claim 1 [**any one of claims 1-17**],
wherein the collation living body information comprises at least one selected from the
group consisting of a fingerprint, a palm print and a voiceprint.

20. A system according to claim 1 [**18**],
wherein the palm print is a palm print of the whole palm or a palm print of a part of the
palm.

21. A system according to claim 1 [**any one of claims 1-17**], wherein the storing
means is a flash memory.

22. A system according to claim 1 [**any one of claims 1-17**], wherein the reading
means is a photodiode or a charge coupled device.

23. A system according to claim 1 [**any one of claims 1-17**], wherein a portable
information terminal is used.

24. A system according to claim 1 [**any one of claims 1-17**], wherein a cellular
telephone is used.

25. A system according to claim 1 [**any one of claims 1-17**], wherein a personal
computer is used.